

ATTACHMENT A

LISTING OF CLAIMS WITH MARKINGS TO SHOW CHANGES MADE

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I CLAIM:

1. (Currently Amended) An electronic component electronically connected with an external electronic master system ~~producing~~ comprising:

configurable electronic circuitry means for emulating an output signal from a respective known electronic system sub-component of a known electronic master system, the output signal corresponding to a function of the electronic system sub-component;

an input/output interface for electronically mating the configurable electronic circuitry means to the electronic master system; and

a configuration controller element electronically connectable with the configurable electronic circuitry means, the configuration controller determines the location of the configurable electronic circuitry means in the electronic master system and configures the configurable electronic circuitry means to emulate a selected function and operational characteristics of the known electronic system sub-component; and

~~wherein~~ the configurable electronic circuit circuitry means has an output adaptable as an input to the electronic master system to replicate and replace functions of the known electronic system sub-component acting in the electronic master system.

2. (Currently Amended) The invention of claim 1 wherein:

the configurable electronic circuit circuitry means and the input/output interface are mounted with a circuit card assembly.

3. (Canceled)

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4. (Currently Amended) The invention of claim 1 further including a processor means external to the configurable electronic ~~circuit~~ circuitry means to load instructions onto the configurable electronic circuit.

5. (Currently Amended) The invention of claim 1 wherein the configurable electronic ~~circuit~~ circuitry means further includes memory means for storing electronic information.

6. (Currently Amended) The invention of claim 1 wherein the configurable electronic ~~circuit~~ circuitry means includes digital logic circuitry.

7. (Original) The invention of claim 1 further including a microprocessor means for executing an emulator program of instructions from the known electronic system sub-component.

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8. (Currently Amended) A method of configuring an electronic component circuit module to emulate output signals from a known electronic circuit comprising:

determining operational functions and respective output signals of a known electronic system sub-component of an existing electronic master system;

developing a program on an external processor to emulate desired functions of the known electronic system sub-component;

loading the program onto a configurable electronic circuit circuitry means that can be electronically connected to the electronic master system; and

determining the location of the configurable electronic circuit circuitry means in the electronic master system using a configuration controller element electronically connectable with the configurable electronic circuit circuitry means;

whereby the configurable electronic circuit circuitry means has an output adaptable as an input to the electronic master system to emulate and replace functions of the known electronic system sub-component acting in the electronic master system.

9. (Currently Amended) The invention of claim 8 wherein the configurable electronic circuit circuitry means is included with a circuit board that can be electronically connected to the electronic master system.

10. (Original) The invention of claim 9 wherein the circuit board is removable from the electronic master system.

11. (Currently Amended) The invention of claim 1 wherein the configurable electronic circuit circuitry means is a field programmable gate array (FPGA).

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12. (Currently Amended) The invention of claim 8 wherein the configurable electronic ~~circuit~~ circuitry means is a field programmable gate array (FPGA).

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